

U.S DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE
SOUTH DAKOTA

**OPERATION AND MAINTENANCE PLAN
IRRIGATION SYSTEM - SPRINKLER
CODE 442**

Landowner/Operator _____

Job Location _____ GPS

Prepared By _____ Date

OPERATION AND MAINTENANCE ITEMS

Operation and maintenance (O&M) is necessary for all conservation practices and is required for all practices installed with NRCS assistance. The landuser is responsible for proper O&M throughout the life of the practice and as may be required by Federal, state or local laws or regulations.

Operation refers to operation of the practice in compliance with all laws, regulations, ordinances, and easements; and in such a manner that will result in the least adverse impact on the environment and will permit the practice to serve the purpose for which it was installed. Maintenance includes work to prevent deterioration of the practice, repairing damage, or replacing components which fail.

Necessary operation and maintenance items for this practice include:

- ☐ Only operate the system when needed to furnish water for plant growth, salt management or to store moisture within the rooting depth of the plant. Monitor crops regularly noting areas of moisture stress and repair or adjust system operation as needed.
- ☐ Operate the system at the design pressure, discharge rate, speed, and irrigation duration and frequency. Periodically examine each sprinkler and spray head, etc. for proper operation. Clean plugged nozzles, or replace nozzles if defective and worn. Use the shank end of a (correctly sized) steel drill bit to check nozzle hole diameters for wear.
- ☐ Promptly repair all leaks in delivery facilities.
- ☐ If necessary during non-seasonal use, place appurtenances in a secure area where they will not be damaged.
- ☐ Maintain all screens, filters, valves, timers and other electrical and mechanical equipment in good operating condition following the electric code and manufacturers' recommendations. Drain and protect equipment from freezing, as necessary.
- ☐ Remove all rodents and/or burrowing animals that have or may damage any part of the delivery, or application facilities. Immediately repair any damage caused by their activity.
- ☐ Repair any vandalism, vehicular or livestock damage. Do not allow livestock near equipment during operation.

Other _____

